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L3	36	l2 and @ad < "20031030"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 15:24
S1	38	PCT/US01/44034	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 15:22
S2	94	("20050096025" "20060258344" "20050039178" "6978453" "20040083472" "20060055951" "20060075284" "7082549" "20040093597" "20040123282" "20040194081" "20040243992" "6175779" "20040088473" "20050281469" "20050055684" "6282281" "20040107417" "20040250245" "20050132351" "20060010437" "20060107260" "5440739" "5586322" "5832511" "20010037256" "20040148597" "20040168165" "20050055687" "20050071385" "6397219" "6466940" "6941453" "7047448" "20040040020" "20040103412" "20040166839" "20040177353" "20040210752" "20040215702" "20040243991" "20040243993" "20050216718" "20060190939" "20060217111" "20040093592" "20040230965" "20050216530" "20060174242" "20060190608"). pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 16:16

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S3	6	S2 and MIME	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 16:44
S4	4	MIME with (updat$4 install$3 upgrad$3) with package	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:06
S5	13	MIME same(updat$4 install$3 upgrad$3) same package	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 16:46
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S7	1674	(mime near type)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:05
S8	68	(mime near type) with (package$1 software)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:06
S9	15	MIME with (updat$4 install$3 upgrad$3) with (package software)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:07
S10	18	MIME with (updat$4 install$3 upgrad$3) with (package software firmware configuration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:07

S11	11	S10 and @ad < "20031030"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:07
S12	1	"60249606".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/29 13:55
S13	0	over near the near air near provisioning	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/29 13:56
S14	65010	ota	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/29 13:56

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1 The architecture of robust publishing systems   ■
Marc Waldman, Aviel D. Rubin, Lorrie Faith Cranor
November 2001 **ACM Transactions on Internet Technology (TOIT),** Volume 1 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(680.21 KB)   Additional Information: full citation, abstract, references, index terms

The Internet in its present form does not protect content from censorship. It is
straightforward to trace any document back to a specific Web server, and usually directly
to an individual. As we discuss below, there are valid reasons for publishing a document in
a censorship-resistant manner. Unfortunately, few tools exist that facilitate this form of
publishing. We describe the architecture of robust systems for publishing content on the
Web. The discussion is in the context of Publius, as that ...

Keywords: Censorship resistance, Web publishing

2 Web-based tools, systems and environments: Software configuration, distribution,   ■
and deployment of web-services
Rainer Anzböck, Schahram Dustdar, Harald Gall
July 2002 **Proceedings of the 14th international conference on Software engineering
            and knowledge engineering SEKE '02**
Publisher: ACM Press
Full text available: 📄 pdf(519.92 KB)   Additional Information: full citation, abstract, references, citings, index
                                                            terms

Web-Services can be seen as a newly emerging distributed computing model for the Web.
They cater for the need to establish business-to-business (B2B) interactions on the Web.
Web-Services consider a loosely coupled component model encapsulating business logic
and interact with other components using XML protocols. Based on one case study, this
paper discusses architectural issues and requirements for software configuration,
distribution, and deployment of web-services.

Keywords: software architecture, software distribution environments, web-services

3 Principled design of the modern Web architecture   ■
Roy T. Fielding, Richard N. Taylor
May 2002 **ACM Transactions on Internet Technology (TOIT),** Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(335.47 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

4 <u>Workshop on compositional software architectures: workshop report</u>
May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3
Publisher: ACM Press
Full text available: pdf(2.91 MB)   Additional Information: <u>full citation</u>, <u>index terms</u>

5 <u>Software process modeling and execution within virtual environments</u>
John C. Doppke, Dennis Heimbigner, Alexander L. Wolf
January 1998 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 7 Issue 1
Publisher: ACM Press

Full text available: pdf(232.51 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In the past, multiuser virtual environments have been developed as venues for entertainment and social interaction. Recent research focuses instead on their utility in carrying out work in the real world. This research has identified the importance of a mapping between the real and the virtual that permits the representation of real tasks in the virtual environment. We investigate the use of virtual environments—in particular, MUDs (Multi-User Dimensions)—in the domain of softwa ...

Keywords: MOO, MUD, PROMO, software process, tools, virtual environments

6 <u>An architecture for WWW-based hypercode environments</u>
Gail E. Kaiser, Stephen E. Dossick, Wenyu Jiang, Jack Jingshuang Yang
May 1997 **Proceedings of the 19th international conference on Software engineering ICSE '97**
Publisher: ACM Press
Full text available: pdf(1.84 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

7 <u>Programming languages for mobile code</u>
Tommy Thorn
September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3
Publisher: ACM Press

Full text available: pdf(393.65 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Sun's announcement of the programming language Java more that anything popularized the notion of mobile code, that is, programs traveling on a heterogeneous network and automatically executing upon arrival at the destination. We describe several classes of

mobile code and extract their common characteristics, where security proves to be one of the major concerns. With these characteristics as reference points, we examine six representative languages proposed for mobile code. The conclusion ...

Keywords: Java, Limbo, Objective Caml, Obliq, Safe-Tcl, distribution, formal methods, mobile code, network programming, object orientation, portability, safety, security, telescript

8 Chimera: hypermedia for heterogeneous software development enviroments
Kenneth M. Anderson, Richard N. Taylor, E. James Whitehead
July 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 3
Publisher: ACM Press

Full text available: pdf(864.32 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

Emerging software development environments are characterized by heterogeneity: they are composed of diverse object stores, user interfaces, and tools. This paper presents an approach for providing hypermedia services in this heterogeneous setting. Central notions of the approach include the following: anchors are established with respect to interactive views of objects, rather than the objects themselves; composable, n-ary links can be established between a ...

Keywords: heterogeneous hypermedia, hypermedia system architectures, link servers, open hypermedia systems, software development environments

9 Customized information extraction as a basis for resource discovery
Darren R. Hardy, Michael F. Schwartz
May 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 2
Publisher: ACM Press

Full text available: pdf(1.91 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

Indexing file contents is a powerful means of helping users locate documents, software, and other types of data among large repositories. In environments that contain many different types of data, content indexing requires type-specific processing to extract information effectively. We present a model for type-specific, user-customizable information extraction, and a system implementation called Essence. This software structure allows users to associate specialized extracti ...

Keywords: Internet, distributed indexing, resource discovery

10 WebExpress: a client/intercept based system for optimizing Web browsing in a wireless environment
Barron C. Housel, George Samaras, David B. Lindquist
December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4
Publisher: Kluwer Academic Publishers

Full text available: pdf(338.35 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

This paper describes an application model and software technology that makes it possible to run World Wide Web applications in wide area wireless networks. Web technology in conjunction with today's mobile devices (e.g., laptops, notebooks, personal digital assistants) and the emerging wireless technologies (e.g., digital cellular, packet radio, CDPD) offer the potential for unprecedented access to data and applications by mobile

workers. Yet, the limited bandwidth, high latency, high cost, ...

11 Papers: Event-based multimedia chronicling systems

Pilho Kim, Ullas Gargi, Ramesh Jain

November 2005 **Proceedings of the 2nd ACM workshop on Continuous archival and retrieval of personal experiences CARPE '05**

Publisher: ACM Press

Full text available: pdf(791.39 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents a new framework for multimedia electronic chronicling systems.Its approach uses events as its driving force for heterogeneous information processing. Specifically,this new approach .rst separates symbols and data, then puts events between them to make a distinct connection.In addition,this approach provides spatio-temporal-semantic relations networks to map high-level semantic user queries into low-level queries that a machine can compute. The innovative user interfaces are ...

Keywords: action capture, browse, chronicle, context modeling, event, information, information sharing, interaction, interfaces, mobile, monitoring, presentation systems, publication, publishing, retrieval, search, tag

12 Software engineering: theory, application and practice: Reusable subsystems: domain-based approach

Hisham Haddad, Herbert Tesser

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**

Publisher: ACM Press

Full text available: pdf(501.82 KB)   Additional Information: full citation, abstract, references, index terms

The goal of achieving a generic architecture for reusable software subsystems remains elusive. This work proposes a model, based on domain engineering, to support improved technique for designing reusable subsystems. The model is based on the concepts of "atomic domain" and the "wrapper" of an atomic domain. An atomic domain signifies a reusable subsystem, and it exhibits specific properties that serve as a basis for building reusable subsystems. The wrapper supports software reuse and managemen ...

Keywords: atomic domain, domain-based reuse methodologies, reusable subsystems, wrapper

13 Web ranking and classification: Efficient, automatic web resource harvesting

Michael L. Nelson, Joan A. Smith, Ignacio Garcia del Campo

November 2006 **Proceedings of the eighth ACM international workshop on Web information and data management WIDM '06**

Publisher: ACM Press

Full text available: pdf(703.63 KB)   Additional Information: full citation, abstract, references, index terms

There are two problems associated with conventional web crawling techniques: a crawler cannot know if all resources at a non-trivial web site have been discovered and crawled ("the counting problem") and the human-readable format of the resources are not always suitable for machine processing ("the representation problem"). We introduce an approach that solves these two problems by implementing support for both the Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH) and MPEG-21 D ...

Keywords: OAI-PMH, mod_oai, web crawling

14 Concerns: Software engineering applications of logic file system: application to

automated multi-criteria indexation of software components
Benjamin Sigonneau, Olivier Ridoux
May 2006 **Proceedings of the 2006 international workshop on Mining software repositories MSR '06**
Publisher: ACM Press
Full text available: pdf(2.34 MB)   Additional Information: full citation, abstract, references, index terms

Logic information systems use formal concept analysis in a novel way to manage information. A file system implementation has been designed under the name of Logic file system. It offers a flexible management of non-hierarchical data. We present several applications of Logic file system to software engineering: multi-criteria indexation of software components, multi-concern browsing of source files, and bug finding in test traces.We detail multi-criteria indexing of software components. Three ind ...

Keywords: logic information system, software components

15 A survey and analysis of Electronic Healthcare Record standards
Marco Eichelberg, Thomas Aden, Jörg Riesmeier, Asuman Dogac, Gokce B. Laleci
December 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 4
Publisher: ACM Press
Full text available: pdf(844.11 KB)   Additional Information: full citation, abstract, references, index terms

Medical information systems today store clinical information about patients in all kinds of proprietary formats. To address the resulting interoperability problems, several Electronic Healthcare Record standards that structure the clinical content for the purpose of exchange are currently under development. In this article, we present a survey of the most relevant Electronic Healthcare Record standards, examine the level of interoperability they provide, and assess their functionality in terms o ...

Keywords: Electronic Healthcare Record standards, eHealth, interoperability

16 System support for pervasive applications
Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall
November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4
Publisher: ACM Press

Full text available: pdf(1.82 MB)   Additional Information: full citation, abstract, references, citings, index terms

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

17 The Web Service Discovery Architecture
Wolfgang Hoschek
November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing Supercomputing '02**
Publisher: IEEE Computer Society Press

Full text available: 🔴 pdf(282.28 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In this paper, we propose the Web Service Discovery Architecture (WSDA). At runtime, Grid applications can use this architecture to discover and adapt to remote services. WSDA promotes an interoperable web service discovery layer by defining appropriate services, interfaces, operations and protocol bindings, based on industry standards. It is unified because it subsumes an array of disparate concepts, interfaces and protocols under a single semi-transparent umbrella. It is modular because it def ...

18 <u>Business-to-business interactions: issues and enabling technologies</u>

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid
May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 12 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: 🔴 pdf(558.34 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

19 <u>Applied cryptography I: Forward-secure signatures with untrusted update</u>

Xavier Boyen, Hovav Shacham, Emily Shen, Brent Waters
October 2006 **Proceedings of the 13th ACM conference on Computer and communications security CCS '06**
Publisher: ACM Press
Full text available: 🔴 pdf(261.19 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In most forward-secure signature constructions, a program that updates a user's private signing key must have full access to the private key. Unfortunately, these schemes are incompatible with several security architectures including Gnu Privacy Guard (GPG) and S/MIME, where the private key is encrypted under a user password as a "second factor" of security, in case the private key storage is corrupted, but the password is not.We introduce the concept of forward-secure signatures with untrusted ...

Keywords: digital signatures, forward security, two-factor authentication, untrusted storage

20 <u>Software performance modelling using PEPA nets</u>

Stephen Gilmore, Jane Hillston, Leïla Kloul, Marina Ribaudo
January 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th international workshop on Software and performance WOSP '04**, Volume 29 Issue 1
Publisher: ACM Press
Full text available: 🔴 pdf(1.16 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Modelling and analysing distributed and mobile software systems is a challenging task. PEPA nets---coloured stochastic Petri nets---are a recently introduced modelling formalism which clearly capture important features such as location, synchronisation and

message passing. In this paper we describe PEPA nets and the newly-developed platform support for software performance modelling using them. Crucial to this support is the compilation from PEPA nets into Hillston's PEPA stochastic process alge ...

Keywords: PEPA nets, mobile objects, performance analysis

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1 **Columns: Visfiles: UK team surveys web-based visualization**   ⬛
     Bill Hibbard
     February 2000 **ACM SIGGRAPH Computer Graphics**, Volume 34 Issue 1
     Publisher: ACM Press
     Full text available: 📄 pdf(958.33 KB)   Additional Information: full citation, abstract

     Arguably the trigger for the success of the World Wide Web in the early 1990s was its
     ability to convey images as well as text. Documents could include colour pictures at no
     extra cost. In those days, however, scientific visualization in a Web context was a passive
     activity. A scientist would create a visualization using a conventional system, and publish
     it on a website - for a reader to later observe. The Web was simply a publication medium.
     Today of course the Web represents a rich distribute ...

2 **Military applications: logistics and urban modeling: Simulating transportation**   ⬛
     practices in multi-indenture multi-echelon (MIME) systems
     Joshua B. McGee, Manuel D. Rossetti, Scott J. Mason
     December 2004 **Proceedings of the 36th conference on Winter simulation WSC '04**
     Publisher: Winter Simulation Conference
     Full text available: 📄 pdf(396.50 KB)   Additional Information: full citation, abstract, references

     Military supply chains encompass a complicated network of customers and suppliers, and
     deal with a wide variety of items. Demand inside the network is generated at the unit
     level at a specific base. The demand from the bases is aggregated to military service
     depots, which comprise the wholesale level in the network. The many layers of the supply
     chain often result in unnecessary cost and delay times, as well as low network reliability.
     Better integration between the multiple levels of the supply ...

3 **m-links: An infrastructure for very small internet devices**   ⬛
     Bill N. Schilit, Jonathan Trevor, David M. Hilbert, Tzu Khiau Koh
     July 2001 **Proceedings of the 7th annual international conference on Mobile
            computing and networking MobiCom '01**
     Publisher: ACM Press
     Full text available: 📄 pdf(680.78 KB)   Additional Information: full citation, abstract, references, citings, index terms

     In this paper we describe the Mobile Link (m-Links) infrastructure for utilizing existing
     World Wide Web content and services on wireless phones and other very small Internet
     terminals. Very small devices, typically with 3-20 lines of text, provide portability and

other functionality while sacrificing usability as Internet terminals. In order to provide access on such limited hardware we propose a small device web navigation model that is more appropriate than the desktop computer's web brows ...

Keywords: middleware, proxy, web phones, wireless, wireless web

4 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor
May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2
Publisher: ACM Press

Full text available: pdf(335.47 KB)   Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

5 007 - Acting and drawing for animation

Lucilla Potter Hoshor, John W. Finnegan, Larry Lauria
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(17.92 MB)   Additional Information: full citation, abstract

This course provides an introduction to acting and drawing techniques used to develop stronger character animation. Physical warm ups, trust and improvisation will be introduced. Participants will physically participate in theater games and drawing methods. The exercises will inspire an instinctive understanding of staging principles, thumbnail drawing, animal personification, mime, emotional recall and audience awareness. Participants will view demonstrations of acting and drawing by lecturers. ...

6 Visualization over the World Wide Web and its application to environmental data

Jason Wood, Ken Brodlie, Helen Wright
October 1996 **Proceedings of the 7th conference on Visualization '96 VIS '96**
Publisher: IEEE Computer Society Press
Full text available: pdf(2.69 MB)   Additional Information: full citation, references, citings, index terms

7 Technical reports

SIGACT News Staff
April 1981 **ACM SIGACT News**, Volume 13 Issue 2
Publisher: ACM Press
Full text available: pdf(2.64 MB)   Additional Information: full citation

8 Risks to the public: Risks to the public in computers and related systems

Peter G. Neumann
May 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 3

Publisher: ACM Press
Full text available: pdf(1.92 MB)   Additional Information: full citation

9 Testing static analysis tools using exploitable buffer overflows from open source code

Misha Zitser, Richard Lippmann, Tim Leek

October 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 12th ACM SIGSOFT twelfth international symposium on Foundations of software engineering SIGSOFT '04/FSE-12**, Volume 29 Issue 6

Publisher: ACM Press

Full text available: pdf(281.45 KB)   Additional Information: full citation, abstract, references, citings, index terms

Five modern static analysis tools (ARCHER, BOON, Poly-Space C Verifier, Splint, and UNO) were evaluated using source code examples containing 14 exploitable buffer overflow vulnerabilities found in various versions of Sendmail, BIND, and WU-FTPD. Each code example included a "BAD" case with and a "OK" case without buffer overflows. Buffer overflows varied and included stack, heap, bss and data buffers; access above and below buffer bounds; access using pointers, indices, and functions; and sc ...

Keywords: buffer overflow, evaluation, exploit, false alarm, security, source code, static analysis, test detection

10 Chimera: hypermedia for heterogeneous software development enviroments

Kenneth M. Anderson, Richard N. Taylor, E. James Whitehead

July 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 3

Publisher: ACM Press

Full text available: pdf(864.32 KB)   Additional Information: full citation, abstract, references, citings, index terms

Emerging software development environments are characterized by heterogeneity: they are composed of diverse object stores, user interfaces, and tools. This paper presents an approach for providing hypermedia services in this heterogeneous setting. Central notions of the approach include the following: anchors are established with respect to interactive views of objects, rather than the objects themselves; composable, n-ary links can be established between a ...

Keywords: heterogeneous hypermedia, hypermedia system architectures, link servers, open hypermedia systems, software development environments

11 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall

November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available: pdf(1.82 MB)   Additional Information: full citation, abstract, references, citings, index terms

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

12 Q focus: purpose-built systems: Java in a teacup

Stephen Johnson
April 2006 **Queue**, Volume 4 Issue 3
Publisher: ACM Press
Full text available: pdf(618.83 KB)
htm(22.57 KB)   Additional Information: full citation, abstract, index terms

Programming Bluetooth-enabled devices using J2ME

13 Papers: Event-based multimedia chronicling systems

Pilho Kim, Ullas Gargi, Ramesh Jain
November 2005 **Proceedings of the 2nd ACM workshop on Continuous archival and retrieval of personal experiences CARPE '05**
Publisher: ACM Press
Full text available: pdf(791.39 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents a new framework for multimedia electronic chronicling systems.Its approach uses events as its driving force for heterogeneous information processing. Specifically,this new approach .rst separates symbols and data, then puts events between them to make a distinct connection.In addition,this approach provides spatio-temporal-semantic relations networks to map high-level semantic user queries into low-level queries that a machine can compute. The innovative user interfaces are ...

Keywords: action capture, browse, chronicle, context modeling, event, information, information sharing, interaction, interfaces, mobile, monitoring, presentation systems, publication, publishing, retrieval, search, tag

14 Best papers from WMASH 2004: Secure universal mobility for wireless Internet

Ashutosh Dutta, Tao Zhang, Sunil Madhani, Kenichi Taniuchi, Kensaku Fujimoto, Yasuhiro Katsube, Yoshihiro Ohba, Henning Schulzrinne
July 2005 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 9 Issue 3
Publisher: ACM Press
Full text available: pdf(1.47 MB)   Additional Information: full citation, abstract, references, index terms

The advent of the mobile wireless Internet has created the need for seamless and secure communication over heterogeneous access networks such as IEEE 802,11, WCDMA, cdma2000, and GPRS. An enterprise user desires to be reachable while outside one's enterprise networks and requires minimum interruption while ensuring that the signaling and data traffic is not compromised during one's movement within the enterprise and between enterprise and external networks. We describe the design, implementation ...

15 Software process modeling and execution within virtual environments

John C. Doppke, Dennis Heimbigner, Alexander L. Wolf
January 1998 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 7 Issue 1
Publisher: ACM Press
Full text available: pdf(232.51 KB)   Additional Information: full citation, abstract, references, citings, index terms

In the past, multiuser virtual environments have been developed as venues for entertainment and social interaction. Recent research focuses instead on their utility in

carrying out work in the real world. This research has identified the importance of a mapping between the real and the virtual that permits the representation of real tasks in the virtual environment. We investigate the use of virtual environments—in particular, MUDs (Multi-User Dimensions)—in the domain of softwa ...

Keywords: MOO, MUD, PROMO, software process, tools, virtual environments

16 An architecture for WWW-based hypercode environments

Gail E. Kaiser, Stephen E. Dossick, Wenyu Jiang, Jack Jingshuang Yang
May 1997 **Proceedings of the 19th international conference on Software engineering ICSE '97**
Publisher: ACM Press
Full text available: pdf(1.84 MB)   Additional Information: full citation, references, citings, index terms

17 A general purpose proxy filtering mechanism applied to the mobile environment

Bruce Zenel
October 1999 **Wireless Networks**, Volume 5 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(385.25 KB)   Additional Information: full citation, references, citings, index terms

18 The 1984 Olympic Message System: a test of behavioral principles of system design

John D. Gould, Stephen J. Boies, Stephen Levy, John T. Richards, Jim Schoonard
September 1987 **Communications of the ACM**, Volume 30 Issue 9
Publisher: ACM Press

Full text available: pdf(3.45 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

There was more than athletic talent being pressed to peak performance at the 1984 Olympic Games in Los Angeles. Behind the scenes, a multilingual Olympic Message System ran round-the-clock keeping more than 10,000 athletes and officials in contact with families and friends, both far and near.

19 Acting and movement for animators: students, teachers, and professionals: Acting for animators: students, teachers and professionals

John C. Finnegan, Ed Hooks
July 2005 **ACM SIGGRAPH 2005 Courses SIGGRAPH '05**
Publisher: ACM Press
Full text available: pdf(94.52 KB)   Additional Information: full citation, references

20 MEP: a media event platform

Daniel Olsson, Andreas Nilsson
June 2002 **Mobile Networks and Applications**, Volume 7 Issue 3
Publisher: Kluwer Academic Publishers

Full text available: pdf(224.85 KB)   Additional Information: full citation, abstract, references, citings, index terms

Popular media events of today are likely to attract a big, live audience. Being part of a huge cricket audience, for example, knowing that the event is broadcast to perhaps millions of people, is a truly arousing experience. But the size of the audience and the

complexity of events do not come without drawbacks. Spectators find it difficult to be at the right spot at the right time and to grasp the essentials of the on goings. We introduce a Media Event Platform, which combines various sources o ...

Keywords: events, media platform, mobile commerce, mobility

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1 Risks to the public: Risks to the public ⬛

Peter G. Neumann

May 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 3

Publisher: ACM Press

Full text available: ⬛ pdf(177.87 KB)   Additional Information: full citation, abstract, index terms

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

2 The software lifecycle with Ada: A command and control application ⬛

M. Goyden

January 1989 **Proceedings of the conference on Tri-Ada '89: Ada technology in context: application, development, and deployment TRI-Ada '89**

Publisher: ACM Press

Full text available: ⬛ pdf(1.57 MB)   Additional Information: full citation, abstract, references, citings, index terms

Ada has been described as the cure-all for future DoD software projects. However, Ada is just a tool. Only if Ada is properly used, will it help aid software engineers produce a better system. The key to developing a system successfully, is a combination of good software engineering with Ada, an incremental software development approach, rapid prototyping, identification of solutions to recurring design problems, and a team of "ego-less" professionals. This paper prov ...

3 Editorial zone: Why cell phones will dominate the future internet ⬛

S. Keshav

April 2005 **ACM SIGCOMM Computer Communication Review**, Volume 35 Issue 2

Publisher: ACM Press

Full text available: ⬛ pdf(182.58 KB)   Additional Information: full citation, references, citings, index terms

Keywords: cellular communications, internet architecture

4   Use of domain analysis to implement the developer off-the-shelf systems (DOTSS) ■
   system acquisition approach
   S. S. Gulu Gambhir
   March 1997 **ACM SIGSOFT Software Engineering Notes**, Volume 22 Issue 2
   Publisher: ACM Press
   Full text available: pdf(728.94 KB)   Additional Information: full citation, abstract, index terms

> This paper discusses implementation of Eisner's Developer Off-the-Shelf Systems
> (DOTSS) system acquisition approach. The DOTSS method involves reuse of entire
> systems rather than reuse of modules or subsystems. Reuse issues, including methods,
> benefits, and obstacles as they relate to the DOTSS approach, are presented. The use of
> Domain Analysis is proposed as a means of developing a set of high-level system
> requirements that are not overly specific to the problem domain at hand, thereby
> allowin ...

5   Evolutionary design of complex software (EDCS) demonstration days 1999 ■
   Wayne Stidolph
   January 2000 **ACM SIGSOFT Software Engineering Notes**, Volume 25 Issue 1
   Publisher: ACM Press
   Full text available: pdf(1.90 MB)   Additional Information: full citation, abstract, index terms

> This report summarizes the Product/Technology demonstrations given at Defense
> Advanced Research Projects Agency (DARPA) Evolutionary Design of Complex Software
> (EDCS) Program Demonstration Days, held 28-29 June 1999 at the Sheraton National
> Hotel, Arlington, VA.

6   Feedback linking: optimizing object code layout for updates ■
   Carl von Platen, Johan Eker
   June 2006 **ACM SIGPLAN Notices , Proceedings of the 2006 ACM SIGPLAN/SIGBED
        conference on Language, compilers and tool support for embedded
        systems LCTES '06**, Volume 41 Issue 7
   Publisher: ACM Press
   Full text available: pdf(421.85 KB)   Additional Information: full citation, abstract, references, index terms

> Firmware over the air (FOTA) is becoming a standard procedure for maintaining and
> updating wireless embedded systems. To cope with bandwidth and storage constraints
> this is facilitated using incremental updates based on delta technology, i.e. only the
> modifications are transmitted. The performance of a FOTA update is highly dependent on
> the size of the delta, and the type of modifications. Application of a delta update involves
> mutating the present version, byte by byte, into the new version. Th ...
>
> **Keywords**: flash memory, incremental software update

7   Article abstracts with full text online: Risks to the public in computers and related ■
   systems
   Peter G. Neumann
   January 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 1
   Publisher: ACM Press
   Full text available: pdf(211.64 KB)   Additional Information: full citation, abstract, index terms

> Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM
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8 Risks to the public: Risks to the public in computers and related systems

Peter G. Neumann
January 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 1
Publisher: ACM Press
Full text available: pdf(211.64 KB)   Additional Information: full citation, index terms

9 Developing software for large-scale reuse (panel)

Ed Seidewitz, Brad Balfour, Sam S. Adams, David M. Wade, Brad Cox
October 1993 **ACM SIGPLAN Notices , Proceedings of the eighth annual conference on Object-oriented programming systems, languages, and applications OOPSLA '93**, Volume 28 Issue 10
Publisher: ACM Press
Full text available: pdf(735.75 KB)   Additional Information: full citation, references, index terms

10 Developing software for large scale reuse

David M. Wade
June 1993 **Proceedings of the tenth annual Washington Ada symposium on Ada: Ada's role in software engineering WADAS '93**
Publisher: ACM Press
Full text available: pdf(150.37 KB)   Additional Information: full citation, references

11 Risks to the public: Risks to the public

Peter G. Neumann
November 2006 **ACM SIGSOFT Software Engineering Notes**, Volume 31 Issue 6
Publisher: ACM Press
Full text available: pdf(374.71 KB)   Additional Information: full citation, abstract

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

12 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann
January 1992 **ACM SIGSOFT Software Engineering Notes**, Volume 17 Issue 1
Publisher: ACM Press
Full text available: pdf(1.65 MB)   Additional Information: full citation, citings, index terms

13 Middleware for mobility: Dynamically programmable and reconfigurable middleware services
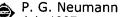
Manuel Roman, Nayeem Islam
October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware Middleware '04**

Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(651.39 KB)   Additional Information: full citation, abstract, references, citings

The increasing software complexity and proliferation of distributed applications for cell phones demand the introduction of middleware services to assist in the development of advanced applications. However, from the user perspective, it is essential that these new phones provide a smooth error-free experience. Despite of the complexity underlying a cell phone, placing a phone call remains a simple task that can be performed by most users regardless of their technical background. Furthermore, ce ...

14 Risks to the public
P. G. Neumann
July 1987 **ACM SIGSOFT Software Engineering Notes**, Volume 12 Issue 3
Publisher: ACM Press
Full text available: pdf(1.44 MB) Additional Information: full citation, index terms ,

15 Posters: Secure dissemination of code updates in sensor networks
Patrick E. Lanigan, Rajeev Gandhi, Priya Narasimhan
November 2005 **Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05**
Publisher: ACM Press
Full text available: pdf(597.53 KB)   Additional Information: full citation, abstract, references, citings, index terms

Existing code update protocols target efficiency and assume correct behavior from participating sensor nodes. This work aims for the progressive, resource sensitive verification of code updates in sensor networks to ensure that unauthorized updates from malicious nodes are not propagated, while correct updates continue to be efficiently disseminated.

Keywords: code dissemination, network programming, security, sensor networks

16 Illustrative risks to the public in the use of computer systems and related technology
Peter G. Neumann
January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: pdf(2.54 MB)   Additional Information: full citation

17 Illustrative risks to the public in the use of computer systems and related technology
Peter G. Neumann
January 1994 **ACM SIGSOFT Software Engineering Notes**, Volume 19 Issue 1
Publisher: ACM Press
Full text available: pdf(2.24 MB)   Additional Information: full citation, citings, index terms

18 Posters: Infuse: a TDMA based reprogramming service for sensor networks
Mahesh (Umamaheswaran) Arumugam
November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems SenSys '04**
Publisher: ACM Press

Full text available: 📄 pdf(86.73 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Programming or upgrading the software in sensor networks is one of the important problems since the sensors are often deployed in large numbers and in hostile environments. In this paper, we present <i>infuse</i>, a reliable over the air reprogramming service for sensor networks using time division multiple access (TDMA) protocol. In case of unexpected channel errors, a back pressure mechanism is used to ensure reliable propagation. Moreover, we show that infuse propagates code in a p ...

Keywords: TDMA, network programming, sensor networks

19 <u>Effective software engineering pedagogy</u>　　　　　　　　　　■

Evelyn Stiller, Cathie LeBlanc
May 2002 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 6
Publisher: Consortium for Computing Sciences in Colleges

Full text available: 📄 pdf(49.69 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Accreditation standards have required computer science departments to teach software engineering for over a decade now. Industry statistics, however, suggest that good software engineering techniques often are not being carried out in large-scale software development projects, resulting in unusable software systems on which millions of dollars have been squandered. Society cannot afford to continue to squander precious resources on software fiascoes. We suggest that perhaps how we teach software ...

20 <u>Software aspects: A software framework for integrated sensor network applications</u>   ■

Raju Pandey, Joel Koshy
May 2006 **Proceedings of the first international conference on Integrated internet ad hoc and sensor networks InterSense '06**
Publisher: ACM Press

Full text available: 📄 pdf(85.14 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Sensor networks have received wide attention in recent years for their revolutionary impact in numerous fields. To harness their full potential, researchers are beginning to build end-to-end solutions that integrate heterogeneous sensor deployments with traditional networks. While such efforts will bring true value to the use of sensor networks, there are several challenges that need to be kept in perspective. This paper highlights some of the key challenges, and presents a system software metho ...

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